

PRODUCTION OF AROMATIC DIAMINE COMPOUND

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Abstract

PURPOSE: To economically obtain the title substance useful as a raw material for polyimide, etc., and a curing agent for epoxy resins by condensing p-2- bromopropionylacetanilide being synthesized from readily obtainable and inexpensive raw materials, as a starting substance, with ammonia.

CONSTITUTION: P-2-Bromopropionylacetanilide as a starting raw material is condensed with ammonia to give a bis(4-acetamidophenyl)dimethylpiperazine shown by formula II (X is group shown by formula III or formula IV). Further, the compound shown by formula II is hydrolyzed to give the objective compound shown by formula V. The starting compound shown by formula I is synthesized from acetanilide and 2-bromopropionyl bromide by Friedel-Crafts reaction. The condensation between the compound shown by formula I and ammonia is carried out in an aprotic polar solvent under heating.

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